

## ABSTRACT

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2 A method for determining a polygonal intersection of a first polygon and a second  
3 polygon. An intersection of the boundary of the first polygon with the boundary of the  
4 second polygon is located by finding a point from which at least three portions of  
5 boundaries extend. From this point, a first portion of the boundary of the polygonal  
6 intersection is determined by identifying a portion of the boundary of the first polygon  
7 that is located inside the second polygon. Each subsequent portion of the boundary of the  
8 polygonal intersection is determined by selecting that portion of the boundary of either  
9 the first polygon or the second polygon that (1) connects to a leading end of a current  
10 portion of the boundary of the polygonal intersection and (2) forms the least angle with  
11 the current portion of the boundary of the polygonal intersection.

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